#1

EXPRESS MAILING LABEL NO. EV 100 810 187 US

PATENT APPLICATION
Docket No: 15689.65

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Yoshihiro Ishikawa et al.

Serial No.: 09/763,034

Art Unit 2661

Filing Date: February 15, 2001

Confirmation No.: 1987

For: NEIGHBORING BASE STATION INFORMATION UPDATE METHOD, INFORMATION MANAGEMENT METHOD FOR CELL SEARCH IN MOBILE COMMUNICATIONS SYSTEM, CELL SEARCH METHOD OF MOBILE STATION, MOBILE COMMUNICATIONS SYSTEM, MOBILE STATION, BASE STATION AND CONTROL STATION

REVOCATION AND SUBSTITUTE POWER OF ATTORNEY

Honorable Commissioner of Patents
and Trademarks
Washington, DC 20231

Sir:

The undersigned, Yoshitaro Shimanuki, declares: that he is the Intellectual Property Executive Manager of NTT DoCoMo, Inc., and that he is authorized to execute this Revocation and Substitute Power of Attorney on behalf of NTT DoCoMo, Inc.; and that NTT DoCoMo, Inc. is the assignee of the entire interest of the above-identified application, as shown by the assignment recorded in the U.S. Patent Office at Reel 011616, Frame 0797 attached at Exhibit A hereto; and name change documents filed October 23, 2002 attached at Exhibit B, and that the documents have been reviewed by him, and to the best of his knowledge and belief title is in the assignee NTT DoCoMo, Inc.. The assignee, NTT DoCoMo, Inc., hereby revokes all previous powers of attorney in the above-identified application, and now hereby appoints all attorneys under customer number:

022913

PATENT TRADEMARK OFFICE

of WORKMAN, NYDEGGER & SEELEY, 1000 Eagle Gate Tower, 60 East South Temple, Salt Lake City, Utah 84111, as attorneys with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the Letters Patent, and to transact all business in the Patent and Trademark Office connected therewith. The declarant further declares that all statements made herein of his own knowledge are true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the application or any patent issuing thereon. All correspondence and telephonic communications should be directed to:

ADRIAN J. LEE
WORKMAN, NYDEGGER & SEELEY
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111

All previous powers of attorney are hereby revoked.

Signed this 30 day of September, 2002.

Yoshitaro Shimanuki

Yoshitaro Shimanuki
Intellectual Property Executive Manager
NTT DoCoMo, Inc.
11-1, Nagatacho 2-Chome
Chiyoda-Ku
Tokyo 100-6150, Japan

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12-17-02

Revocation Receipt

EXPRESS MAILING LABEL NO. EV 100 810 187 US

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CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. § 1.10

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

I hereby certify that the following documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231, on this 16th day of December, 2002:

- Transmittal for Revocation and Substitute Power of Attorney and Change of Attorney Docket No. (2 pages, in triplicate)
- Revocation and Substitute Power of Attorney and Exhibit A & B (20 pages)
- Change of Attorney Docket Number (2 pages)
- Postcard

Respectfully submitted,

ADRIAN J. LEE
Attorney for Applicant
Registration No. 42,785

with the above-identified patent application to the attention of the undersigned. Triplicate copies of this letter are enclosed.

Dated this 16th day of December, 2002.

Respectfully submitted,

ADRIAN J. LEE
Attorney for Applicant
Registration No. 42,785

022913

PATENT TRADEMARK OFFICE

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In re application of	Yoshihiro Ishikawa et al.	)
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TRANSMITTAL FOR REVOCATION AND SUBSTITUTE POWER OF ATTORNEY and CHANGE OF ATTORNEY DOCKET NUMBER

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

Transmitted herewith for filing is a Revocation and Substitute Power of Attorney and Change of Attorney Docket Number. Please address all future correspondence in connection

ASSIGNMENT

WHEREAS, we, 1) Yoshihiro ISHIKAWA and 2) Mamoru SAWAHASHI and 3) Seizo ONOE

a citizen of Japan,

residing at 1) 4-18-4-503, Nobi, Yokosuka-shi, Kanagawa 239-0841, Japan
2) 1-59-17, Tomiokanishi, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0052, Japan
3) 1974-21, Mutsuura-cho, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0031, Japan

have invented one or more inventions (hereinafter referred to as "said invention(s)") disclosed in an application for Letters Patent of the United States titled

NEIGHBORING BASE STATION INFORMATION UPDATE METHOD, INFORMATION MANAGEMENT METHOD FOR CELL SEARCH IN MOBILE COMMUNICATIONS SYSTEM, CELL SEARCH METHOD OF MOBILE STATION, MOBILE COMMUNICATIONS SYSTEM, MOBILE STATION, BASE STATION AND CONTROL STATION

(hereinafter referred to as "said application"), said application having been executed on even date herewith or filed on _____ and assigned application Serial No. _____.

WHEREAS, NTT DoCoMo, Inc.,
(hereinafter together with its successors and assigns referred to as "the Assignee"), a Japanese corporation, having a place of business at

11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 100-6150, Japan

is desirous of obtaining all right, title and interest in, to and under said invention(s) and said application; and

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which we hereby acknowledge, we have sold, assigned, transferred and set over, and by these presents hereby sell, assign, transfer and set over to the Assignee all right, title and interest in, to and under said invention(s) and said application, including the right to apply for any Letters Patent of the United States of America and in any and all foreign countries on said invention(s), and any and all other applications for Letters Patent on said invention(s), in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part and convention applications based in whole or in part upon said invention(s) or upon said application, and any and all Letters Patent which may issue thereon in the United States and foreign countries, and any and all reissues, extensions, renewals, divisions, continuations or continuations-in-part of Letters Patent granted for said invention(s) or upon said applications, to the full term or terms for which said Letters Patent may be issued, and every priority right that is or may be predicated upon or arise from said invention(s), said application and said Letters Patent, the same to be held and enjoyed by the Assignee for its own use and benefit fully and entirely as if the same would have been held and enjoyed by us had this Assignment not been made. We hereby authorize the Assignee to file patent applications in any and all countries on any or all of said invention(s) in our names, or in its name, or otherwise as the Assignee may deem advisable, under the International Convention or otherwise.

We hereby authorize the Commissioner of Patents and Trademarks of the United States, and any official of any other country empowered to issue patents, to record this Assignment, and to issue or transfer all said Letters Patent on said invention(s) to the Assignee as owner of all right, title and interest therein, or otherwise as the Assignee may direct, in accordance with the terms of this Assignment.

We hereby represent and warrant that we have the full right to convey the entire right and interest herein assigned, that there are no rights or interests outstanding inconsistent with the rights and interests granted herein, and that we will not execute any instrument or grant or transfer any rights or interests inconsistent with the rights and interests granted herein.

We hereby covenant and agree that we will, upon request of the Assignee, communicate to the Assignee any facts known to us relating to said invention(s) and the history thereof, testify in any legal proceeding, execute all lawful papers including without limitation all divisional, continuing and reissue applications and all rightful oaths and declarations, and generally do all further acts which may be deemed necessary by the Assignee to obtain and enforce proper patent protection for said invention(s) in all countries.

IN TESTIMONY WHEREOF, we have executed this document on the date indicated below.

Date: Feb. 5, 2001

Yoshihiro Ishikawa

(Signature) Yoshihiro ISHIKAWA

Date: Feb. 5, 2001

Mamoru Sawahashi

(Signature) Mamoru SAWAHASHI

Date: Feb. 5, 2001

Seizo Onoe

(Signature) Seizo ONOE

Docket No.: 15689.0

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp.5/31/2002)
P08/REV03

OIPE JC73 DEC 16 2002 PATENT & TRADEMARK OFFICE

RECORDATION FORM COVER SHEET

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
NTT MOBILE COMMUNICATIONS NETWORK INC.

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: **NTT DOCOMO, INC**

RECEIVED
DEC 23 2002
Technology Center 2600

Internal Address:

Street Address: **11-1, Nagatacho 2-chome, Chiyoda-ku**

Tokyo, Japan

City: _____ State: ____ ZIP: ____

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☐ Assignment ☐ Merger
☐ Security Agreement ☒ Change of Name
☐ Other _____

Execution Date: **April 1, 2000**

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

see attached list for

B. Patent No.(s)

applications and patents affected

Additional numbers attached? ☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Adrian J. Lee**

Internal Address:

Street Address: **Workman, Nydegger & Seeley**

1000 Eagle Gate Tower, 60 East South Temple

City: **Salt Lake City** State: **UT** ZIP: **84111**

6. Total number of applications and patents involved: **52**

7. Total fee (37 CFR 3.41):.....$ **2,080.00**

☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☒ Authorized to be charged to deposit account

8. Deposit account number:

23-3178

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

ADRIAN J. LEE — Name of Person Signing

Signature

Oct. 23, 2002 — Date

Total number of pages including cover sheet, attachments, and document: **16**

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ATTACHMENT "A"

WNS File	Full Title	Patent/Application No.	Filed/Issued
15689.1	A CDMA Communications Method and System	5,586,113	12/17/1996
15689.2	Frequency Error Correction Device of a Spread-Spectrum Communication Receiver	5,774,494	6/30/1998
15689.3	Communication System Capable of Performing FDMA Transmission	5,715,235	2/3/1998
15689.4	Code Sequence Generator	5,596,516	1/21/1997
15689.5	Transmission Power Control Method and Communication System Using the Same	5,566,165	10/15/1996
15689.6	Transmission Power Control Method and a Transmission Power control Apparatus	5,590,409	12/31/1996
15689.7	Transmission Power Control Method of A Spread-Spectrum Communication System, and a Spread-Spectrum Communication System employing the Control Method	5,604,766	2/18/1997
15689.8	A Transmission Power Control Method and Apparatus for Mobile Communications Using a CDMA System	5,623,486	4/22/1997
15689.9	Receiver and Repeater for Spread Spectrum Communications	5,652,765	7/29/1997
15689.10	Code Division Multiple Access Transmitter and Receiver	5,748,623	5/5/1998
15689.11	Spread Spectrum Communication Receiver	5,594,754	1/14/1997
15689.12	Correlation Detector and Communication Apparatus	5,638,362	6/10/1997
15689.13	Coherent Detector and a Coherent Detection Method for a Digital Communication Receiver	5,692,015	11/25/1997
15689.14	Automatic Gain Control Apparatus, Communication System, and Automatic Gain Control Method	5,745,531	4/28/1998
15689.15	CDMA Communications Method and System	5,734,648	3/31/1998
15689.16	CDMA Demodulator and Demodulation Method	5,694,388	12/2/1997
15689.17	CDMA Multiuser Receiver and Method	5,724,378	3/3/1998
15689.18	Mobile Satellite Communication System	5,835,846	11/10/1998
15689.19	Speech Information Freeze Out Control Method and Equipment in Mobile Satellite Communication System	5,745,492	4/28/1998
15689.20	Mobile Communications System and Method With Message Storing Function	6,064,876	5/16/2000
15689.21	Apparatus and Method for Establishing Acquisition of Spreading Code in CDMA Transmission System	5,914,943	6/22/1999
15689.22	Coherent Tracking Apparatus and Method for CDMA Receiver	5,898,665	4/17/1999
15689.23	Mobile Communications System and Communications Network	5,828,958	10/27/1998

ATTACHMENT "A"

WNS File	Full Title	Patent/Application No.	Filed/Issued
15689.24	Multicellular Transmission Method and Apparatus	5,940,385	2/25/1999
15689.25	Variable Rate Transmission Method, Transmitter, and Receiver Using the Same	5,896,374	4/20/1999
15689.26	Transmitter Receiver for Mobile Communication System	5,850,393	12/15/1998
15689.27	CDMA Mobile Communication Method, System and Mobile Station Apparatus	5,953,324	9/14/1999
15689.28	CDMA Demodulating Apparatus	6,137,788	10/24/2000
15689.29	Acquisition Method and System of Spreading Code	5,940,433	8/17/1999
15689.30	DS/CDMA Transmission Method	6,097,711	8/1/2000
14589.31	Transmission System between Base Station and Switching Center of Mobile Communications Using Fixed Length Cell	08/849,963	6/6/1997
15689.32	Short Cell Management Unit and Method	5,909,428	6/1/1999
15689.33	CDMA Communication Method and Group Spreading Modulator	6,084,884	7/4/2000
15689.34	Sliding Correlator Used in CDMA Systems to Establish Initial Synchronization	5,768,306	6/16/1998
15689.35	Diversity Receiver and Its Control Method	6,069,912	5/30/2000
15689.36	Rake Receiver	6,026,115	2/15/2000
15689.37	Micro-frame Multiplex Transmitter	6,061,354	5/9/2000
15689.38	Method and Instrument for Measuring Receiving SIR and Transmission Power Controller	6,034,952	3/7/2000
15689.39	Signal transmitting Method, Transmitter, Receiver, and Spectrum Code Synchronizing Method for Mobile Communications System	6,167,037	12/26/2000
15689.40	ATM Transmission Method Having Silence Compression Controlling Function and System Transmitter and Receiver Using the Method	6,130,888	10/10/2000
15689.41	Signal Transmission Method, Mobile Station and Base Station in a CDMA Mobile Communication System	6,310,868	10/30/2001
15689.42	Data Transmitting Method, Data Transmitting System and Transmitter and Receiver	6,108,384	10/30/2001
15689.43	Power Controller for Mobile Communication System Wherein a Signal to Interference Threshold is Dynamically Moved Based on an Error Rate Measurement	6,341,224	1/22/2002
15689.44	Radio Paging System	6,356,579	3/12/2002
15689.45	Mobile Communication System, Mobile Station and Diversity Handover Branch Control Method	09/230,956	2/4/1999
15689.46	Bandwidth Control Method of Packet Data in Packet Switching Network and Packet Switching System	09/343,488	6/30/1999

ATTACHMENT "A"

WNS File	Full Title	Patent/Application No.	Filed/Issued
15689.47	Packet Communications Network	6,310,859	10/30/2001
15689.48	Channel Estimation Unit, CDMA Receiver and CDMA Transceiver with Channel Estimation Unit	09/375,906	8/17/1999
15689.49	Base Station in Mobile Communication System	09/403,161	10/15/1999
15689.50	Method and Apparatus for Traffic Control	09/423,131	11/5/1999
15689.51	CDMA Receiver and CDMA Transceiver	09/446,560	12/22/1999
15689.52	Packet Transmission Method, Packet Transmission System and Packet Data Transmission Medium on Mobile Communications Network System	09/462,295	1/6/2000

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CHANGE OF ATTORNEY DOCKET NUMBER

Honorable Commissioner of Patents
and Trademarks
Washington, D. C. 20231

Sir:

For convenience and ready identification of the papers received in connection with the above-identified patent application, please reference in all future communications my Docket No. 15689.65. All communications should remain addressed to the undersigned:

ADRIAN J. LEE
WORKMAN, NYDEGGER & SEELEY
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
(801) 533-9800

Dated this 16th day of December, 2002.

Respectfully submitted,

ADRIAN J. LEE
Attorney for Applicant
Registration No. 42,785

PATENT TRADEMARK OFFICE

AJL:jrj